



CKI overview

ATS 2019



WE'RE GOING FAST!

For more details, check out

<https://cki-project.org>

<https://gitlab.com/cki-project>


<https://github.com/cki-project>

GOAL

Prevent
bugs
from
getting
into
kernel

... finding old bugs is a nice addition

CURRENT UPSTREAM TREES

- Newest stable branch
 - stable-next (Sasha's tree)
 - ARM-next
 - RDMA
 - RT-devel
-
- SCSI
 - net-next
 - Mainline
- 
- x86_64 only

FOCUS

x86_64

VMs

GPUs

aarch64

Laptops

NICs

ppc64

PCs

Storage controllers

ppc64le

Servers

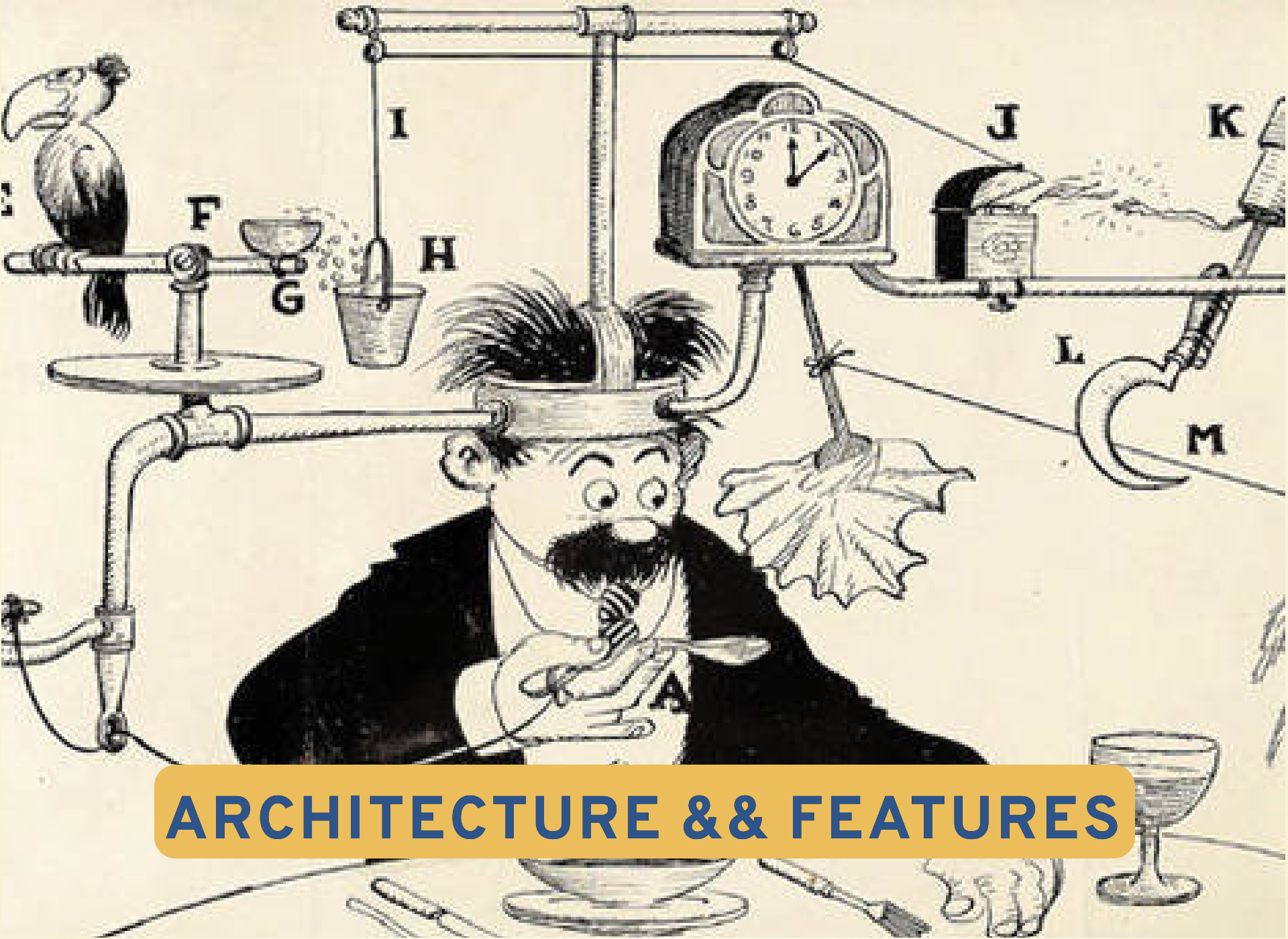
Audio cards

s390x

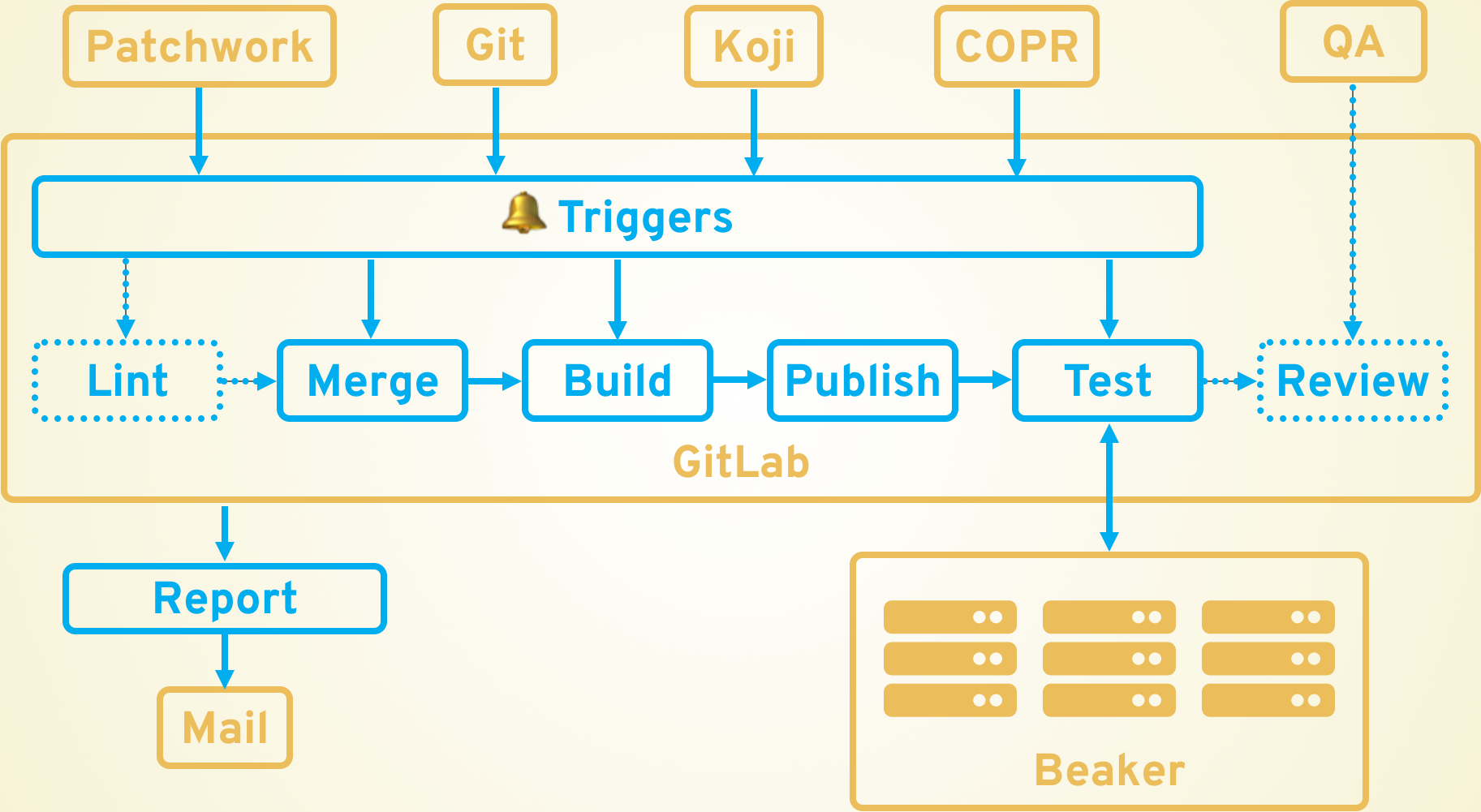
Mainframes

Infiniband adapters

and more!



ARCHITECTURE & FEATURES



R:73228521 of 2 recipes in J:3771022

Edit

Clone

View as: [Beaker results XML](#) · [JUnit XML](#)

Started [4 hours ago](#) and finished in [04:26:42](#).

Using [Fedora-30 Server aarch64](#) on

redacted.redhat.com ▾

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WHITEBOARD

(empty)

Console output

- Installation
- Tasks
- Reservation

Pass with 15 out of 15 tasks finished.

100%

▶ T:98843960	+00:25:45	/distribution/check-install	1.0-2	taskout.log + 1	🔗	💬	Pass
▶ T:98843962	+00:27:08	/test/misc/machineinfo		taskout.log + 3	🔗	💬	Pass
▶ T:98843963	+00:27:55	Boot test		taskout.log + 1	🔗	💬	Pass
▼ T:98843966	+00:45:41	LTP lite		taskout.log + 18	🔗	💬	Pass

Results

Settings

TR:454801203	+01:00:53	Setup	resultoutputfile.log + 1	🔗	💬	Pass
TR:454801570	+01:02:25	sched	resultoutputfile.log + 1	🔗	💬	Pass
TR:454811862	+01:52:54	syscalls	resultoutputfile.log + 1	🔗	💬	Pass
TR:454811909	+01:53:07	can	resultoutputfile.log + 1	🔗	💬	Pass
TR:454812109	+01:54:09	commands	resultoutputfile.log + 1	🔗	💬	Pass
TR:454812240	+01:54:50	containers	resultoutputfile.log + 1	🔗	💬	Pass

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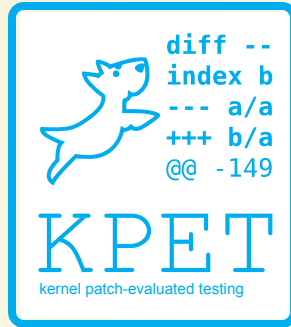
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PATCH ANALYSYS

sources:

or:

- include/net/*.route.*
- include/net/*.fib.*
- include/linux/*.route.*
- include/uapi/linux/*.route.*
- include/uapi/linux/*.fib.*
- net/ipv4/fib.*
- net/ipv6/fib6.*
- net/ipv4/route.c
- net/ipv6/route.c
- net/ipv4/ip_forward.c
- net/ipv6/ip_fib.c

TESTS

iSCSI params	LTPLite
Thinpool sanity	USEX
PCI utils sanity	Connectathon NFS
kdump	KVM Unit Tests
Socket fuzzing	KVM Self Tests
Routing tests	Libhugetlbfs tests
Firewall tests	stress-ng
xfstests	blocktests
Realtime kernel tests	SystemTap tracepoints

and more!

TESTS

iSCSI params

LTPLite

Thinpool sanity

USEX

COLLABORATION WITH TEST MAINTAINERS

Firewall tests

stress-ng

xfstests

blocktests

Realtime kernel tests

SystemTap tracepoints

and more!

A close-up photograph of a white parchment-lined baking sheet filled with several golden-brown chocolate chip cookies. The cookies are scattered across the sheet, which is placed on a wooden surface. The lighting is warm, highlighting the texture of the cookies and the wood grain.

FUTURE PLANS

**Prevent
bugs
from
getting
into
kernel**

Prevent
bugs

**UPSTREAM PATCH LEVEL
TESTING**

getting
into
kernel

**ADD TARGETED TESTS
FOR EVERY KERNEL
SUBSYSTEM**

**ADD TARGETED TESTS
FOR EVERY KERNEL
SUBSYSTEM**

ADD SELFTESTS :)

KERNEL CI COLLABORATION

**KERNEL CI
COLLABORATION
COMMON RESULT
DATABASE**

THANK YOU!



cki-project@redhat.com

vkabatov@redhat.com